## Claims

1. A matrix-type display apparatus which drives a display panel including a plurality of pixels disposed in matrix form and displays an image, characterized by including:

a converting means for  $\gamma$ -converting an input video signal, using n (which is an integer of two or above) pairs of  $\gamma$ -characteristics which are made up of first and second  $\gamma$ -characteristics different from each other; and

a selecting means for selecting one pair of  $\gamma$  -characteristics from among the n pairs of  $\gamma$  -characteristics according to a transmittance to be used for display, and selecting an output supplied to the display panel from among the 2n outputs which are  $\gamma$  -corrected by the converting means, so that a first distribution area ratio of pixels driven by the video signal  $\gamma$  -corrected by use of the first  $\gamma$  -characteristic of the selected pairs of  $\gamma$  -characteristics and a second distribution area ratio of pixels driven by the video signal  $\gamma$  -corrected by use of the second  $\gamma$  -characteristic of the selected pairs of  $\gamma$ -characteristics are equal to a distribution area ratio specified in advance for the selected pairs of  $\gamma$ -characteristics.

The matrix-type display apparatus according to claim
 characterized in that the selecting means selects an output
 supplied to the display panel from among the 2n outputs which

are  $\gamma$ -corrected by the converting means, so that the first distribution area ratio and the second distribution area ratio are equal to the distribution area ratio in a block unit of (n+1) pixels per block.

- 3. The matrix-type display apparatus according to claim 2, characterized in that the first distribution area ratio and the second distribution area ratio for each pair of  $\gamma$  -characteristics are selected out of k/(n+1) and (1-k)/(n+1), if k is an integer of one to n.
- The matrix-type display apparatus according to claim
   characterized in that:

each pixel of the display panel is made up of, as one pixel, a first sub-pixel which has a first pixel area Sa and a second sub-pixel which has a second pixel area Sb (=m ×Sa, herein, m>1); and

the selecting means selects an output supplied to the display panel from among the 2n outputs which are  $\gamma$ -corrected by the converting means, so that the first distribution area ratio and the second distribution area ratio are equal to the distribution area ratio in a block unit of the one pixel per block.

- 5. The matrix-type display apparatus according to claim
- 4, characterized in that the first distribution area ratio

and the second  $\gamma$ -distribution area ratio for each pair of  $\gamma$ -characteristics are selected out of 1/(m+1) and m/(m+1).

- 6. The matrix-type display apparatus according to claim 5, characterized in that the second pixel area Sb satisfies the relation of 1.5Sa≤Sb≤3Sa.
- 7. The matrix-type display apparatus according to claim
  1, characterized in that:

each pixel of the display panel is made up of, as one pixel, a first sub-pixel which has a first pixel area Sa and a second sub-pixel which has a second pixel area Sb (= $m \times Sa$ , herein,  $m \ge 1$ ); and

the selecting means selects an output supplied to the display panel from among the 2n outputs which are  $\gamma$ -corrected using each  $\gamma$ -characteristic by the converting means, so that the first distribution area ratio and the second distribution area ratio are equal to the distribution area ratio in a block unit of the two pixels per block.

8. The matrix-type display apparatus according to claim 7, characterized in that the first distribution area ratio and the second  $\gamma$ -distribution area ratio for each pair of  $\gamma$ -characteristics are selected from among 1/(2+2m), m/(2+2m), 2/(2+2m), (1+m)/(2+2m), 2m/(2+2m), (2+m)/(2+2m), and (2m+1)/(2+2m).

- 9. The matrix-type display apparatus according to claim 8, characterized in that the second pixel area Sb satisfies the relation of  $1.2Sa \le Sb \le 2Sa$ .
- 10. The matrix-type display apparatus according to any of claims 1 to 9, characterized in that the selecting means selects an output supplied to the display panel from among the 2n outputs which are  $\gamma$ -corrected by the converting means, in a unit of one pixel made up of an R-pixel, a G-pixel and a B-pixel.
- 11. The matrix-type display apparatus according to any of claims 1 to 9, characterized in that the selecting means selects an output supplied to the display panel from among the 2n outputs which are  $\gamma$ -corrected by the converting means, for each of an R-pixel, a G-pixel and a B-pixel which are each set as one pixel.
- 12. The matrix-type display apparatus according to any of claims 1 to 11, characterized in that the display panel is a liquid-crystal display panel.
- 13. A driving method for a matrix-type display apparatus which drives a display panel including a plurality of pixels disposed in matrix form and displays an image, characterized

by including:

a converting step of  $\gamma$  -converting an input video signal, using n (which is an integer of two or above) pairs of  $\gamma$  -characteristics which are made up of first and second  $\gamma$  -characteristics different from each other; and

a selecting step of selecting one pair of  $\gamma$  -characteristics from among the n pairs of  $\gamma$  -characteristics according to a transmittance to be used for display, and selecting an output supplied to the display panel from among the 2n outputs which are  $\gamma$ -corrected in the converting step, so that a first distribution area ratio of pixels driven by the video signal  $\gamma$ -corrected by use of the first  $\gamma$ -characteristic of the selected pairs of  $\gamma$ -characteristics and a second distribution area ratio of pixels driven by the video signal  $\gamma$ -corrected by use of the second  $\gamma$ -characteristic of the selected pairs of  $\gamma$ -characteristics are equal to a distribution area ratio specified in advance for the selected pairs of  $\gamma$ -characteristics.